

M e m o r a n d u m**Date :** March 25, 1999**Telephone:** ATSS ()

(916) 654-4996

To : William J. Keese, Chairman
David A. Rohy, Vice Chair
Jananne Sharpless, Commissioner
Michal C. Moore, Commissioner
Robert A. Laurie, Commissioner

File

From : California Energy Commission - Kent Smith
1516 Ninth Street Acting Executive Director
Sacramento, CA 95814-5512

Subject : DATA ADEQUACY RECOMMENDATION FOR THE ELK HILLS POWER PROJECT -
(99-AFC-1)

The staff has completed its data adequacy review of the AFC submitted on February 24, 1999. I have determined that the AFC does not contain all the information required by Cal. Code of Regs., tit. 20, § 1704, Appendix B. Attachment A contains an overview of whether each technical discipline evaluated is adequate or inadequate. Attachment B contains staff's detailed data adequacy worksheets which describe staff's findings for each information requirement that is inadequate.

At the Energy Commission's business meeting on March 31, 1999, I will be recommending that the Energy Commission not accept the AFC until all the additional information specified in Attachment B is supplied. Pursuant to Cal. Code of Regs., tit. 20, § 1709 (c), if the Energy Commission accepts my recommendation, the Energy Commission shall indicate, in writing, those parts of the AFC which fail to meet the information requirements and the manner in which it can be made complete.

If you have any questions, please call Marc Pryor, staff's Project Manager, at (916) 653-0159.

KENT SMITH
Acting Executive Director

KS:mp

Attachments

cc: Jane Luckhardt, Counsel to Applicant
Joseph H. Rowley, VP, Elk Hills Power, LLC

S:projects/Elk Hill/recmemo.doc

ATTACHMENT A

OVERVIEW OF ENERGY COMMISSION STAFF'S DATA ADEQUACY DETERMINATION

Elk Hills Power Project 99-AFC-1

| TECHNICAL AREA | ADEQUATE | INADEQUATE | Attachment B Page |
|--|----------|------------|----------------------|
| 1. Project Overview | | √ | B-1 |
| 2. Alternatives | | √ | B-5 |
| 3. Air Quality | | √ | B-6 |
| 4. Public Health | √ | | B-11 |
| 5. Worker Safety & Fire Protection | | √ | B-14 |
| 6. Transmission Line Safety & Nuisance | √ | | B-17 |
| 7. Hazardous Materials Handling | √ | | B-21 |
| 8. Waste Management | √ | | B-24 |
| 9. Land Use | | √ | B-27 |
| 10. Traffic & Transportation | | √ | B-32 |
| 11. Noise | √ | | B-37 |
| 12. Visual Resources | √ | | B-41 |
| 13. Cultural Resources | √ | | B-44 |
| 14. Socioeconomics | | √ | B-48 |
| 15. Biological Resources | | √ | B-55 |
| 16. Soil & Water Resources | | √ | B-59 |
| 17. Paleontological Resources | √ | | B-62 |
| 18. Facility Design & Geology | | √ | B-65 |
| 19. Power Plant Reliability | | √ | B-68 |
| 20. Power Plant Efficiency | √ | | B-71 |
| 21. Transmission System Engineering | | √ | B-74 |

ATTACHMENT B

ENERGY COMMISSION STAFF'S List of Data Inadequacies

**Elk Hills Power Project
99-AFC-1**

March 25, 1999

DATA ADEQUACY WORKSHEET

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Revision 0 Dat 3/11/99

Technical Area: **Project Overview**

Project : Elk Hills Power Project

Technical Staff: Eileen Allen

Project Manager: Marc Pryor

Docket : 99-AFC-1

Technical Senior: Roger E. Johnson

| SITING REGULATION S | INFORMATION | AFC PAGE NUMBER AND SECTION NUMBER | ADEQUAT E YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|--|--|--|------------------------------|--|
| Cal. Code Regs., tit. 20, § 1704, (a) (3) (A) | Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document. | Overall document | Yes | |
| Cal. Code Regs., tit. 20, § 1704, (a) (3) (B) | Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and | Overall document | Yes | |
| Cal. Code Regs., tit. 20, § 1704, (a) (3) (C) | A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference | Various technical sections | Yes | |
| Cal. Code Regs., tit. 20, § 1704, (a) (4) | Each principle subject area covered in a notice or application shall be set forth in a separate chapter or section, each of which shall identify the person or persons responsible for its preparation. | Overall document | Yes | |

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| Appendix B (a) (1) (A) | A general description of the proposed site and related facilities, including the location of the site or transmission routes, the type, size and capacity of the generating or transmission facilities, fuel characteristics, fuel supply, water supply, pollution control systems, and other general characteristics. | P.3.-1 through P.3-91, Section 3.0 | Yes | |
| Appendix B (a) (1) (B) | Identification of the location of the proposed site and related facilities by section, township, range, county and assessors parcel numbers. | p.3-1, Section 3.0 | No | Please provide the assessor's parcel number for the site. If the site is part of a larger parcel, please provide the number for that parcel. |
| Appendix B (a) (1) (C) | A description of and maps depicting the region, the vicinity, and the site and its immediate surroundings. | Figure 3.2-1, p.3-92, Section 3.0 Figure 3.2-2, p.3-3, Section 3.0 | Yes | |

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| Appendix B (a) (1) (D) | A full-page color photographic reproduction depicting the visual appearance of the site prior to construction, and a full-page color simulation or artist's rendering of the site and all project components at the site, after construction. | Figure 3.3-1, p.3-7, Section 3.0 Figure 3.4-3, p.3-13, Section 3.0 | Yes | |
| Appendix B (a) (1) (E) | In an appendix to the application, a list of current assessor's parcel numbers and owners' names and addresses for all parcels within 500 feet of the proposed transmission line and other linear facilities, and within 1000 feet of the proposed powerplant and related facilities. | Appendix O, AFC Vol.2 | No | Please indicate in the title for the table in Appendix O whether the parcels listed are within 500 feet of the proposed linear facilities. If all of the land within 1000 feet of the proposed site is owned by Occidental of Elk Hills, Inc. please note that in Appendix O. |
| Appendix B (a) (2) | Project Schedule: Proposed dates of initiation and completion of construction, initial start-up, and full-scale operation of the proposed facilities. | p.1-2, Section 1.5 | No | Please provide estimated dates for initial start-up of the project, and the duration of the start-up/testing interval. A time estimate such as "Months 12 and 13" would be sufficient. |

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| Appendix B (a) (3) (A) | A list of all owners and operators of the site(s), the power plant facilities, and, if applicable, thermal host, the geothermal leasehold, the geothermal resource conveyance lines, and the geothermal re-injection system, and a description of their legal interest in these facilities. | p.1-1, Section 1.2 | Yes | |
| Appendix B (a) (3) (B) | A list of all owners and operators of the proposed electric transmission facilities. | p.1-4, Section 1.6.4 | Yes | |
| Appendix B (a) (3) (C) | A description of the legal relationship between the applicant and each of the persons or entities specified in subsections (a)(3)(A) and (B). | p.1-1, Section 1.2 | Yes | |
| Appendix B (b) (1) (A) | Maps at a scale of 1:24,000 (1" = 2000'), along with an identification of the dedicated leaseholds by section, township, range, county, and county assessor's parcel number, showing the proposed final locations and layout of the power plant and all related facilities; | Figure 3.2-1, p.3-2, Section 3.0 | Yes | |

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| Appendix B (b) (1) (B) | Scale plan and elevation drawings depicting the relative size and location of the power plant and all related facilities; | Figure 3.4-1, p.3-9 Figure 3.4-2, p.3-11 Section 3.0 | Yes | |
| Appendix B (b) (1) (C) | A detailed description of the design, construction and operation of the facilities, specifically including the power generation, cooling, water supply and treatment, waste handling and control, pollution control, fuel handling, and safety, emergency and auxiliary systems, and fuel types and fuel use scenarios; and | p.3-15 through 3-66, Sections 3.0-3.7.3 | Yes | |
| Appendix B (b) (1) (D) | A description of how the site and related facilities were selected and the consideration given to engineering constraints, site geology, environmental impacts, water, waste and fuel constraints, electric transmission constraints, and any other factors considered by the applicant. | p.3-74 & 3-75, Section 3.11.2.1 | Yes | |

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| Appendix B (b) (2) (A) | Maps at a scale of 1:24,000 of each proposed transmission line route, showing the settled areas, parks, recreational areas, scenic areas, and existing transmission lines within one mile of the proposed route(s). | Figure 3.2-1, p.3-2 Section 3.0 | No | Please provide a map showing the location of existing transmission lines. This could be a new map, or additions to Figure 3.2-1, as long as the existing lines are explicitly labeled. |
| Appendix B (b) (2) (B) | A full-page color photographic reproduction depicting a representative above ground section of the transmission line route prior to construction and a full-page color photographic simulation of that section of the transmission line route after construction. | Figures 5.10-3a & 5.10-3b, p.5.10-23 and 5.10-24, Section 5.10 | Yes | |

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| Appendix B (c) | In a section entitled, "Demand Conformance" provide a discussion explaining how the proposed project conforms with the requirements of Public Resources Code § 25524 or Public Resources Code § 25540.6(a)(5). If the provisions of Public Resources Code § 25523.5 are applicable, explain how the project conforms with the requirements of this section. Additional data adequacy requirements may be contained in the Electricity Report applicable pursuant to Title 20, California Code of Regulations, § 1720.5. | p.2-1 and 2-2, Section 2.0 | Yes | |
| Appendix B (d) (1) | A copy of any study or analysis required by the terms of the Commission's Final Decision on the NOI, and a brief summary of the results of the study or analysis. | Not applicable | | |

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| Appendix B (d) (2) | Updates of any significant information which has changed since the Commission's Final Decision on the NOI. | Not applicable | | |
| Appendix B (e) (1) | A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations. | p.3-71 through 3-73, Section 3.10.2 | Yes | |

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| Adequacy | Adequat <input type="checkbox"/> Inadequat <input checked="" type="checkbox"/> | | Revision <u> 0 </u> | Dat <u> 3/11/99 </u> |
| Technical Area: | Alternatives | Project : Elk Hills Power Project | Technical Staff: | Eileen Allen |
| Project Manager: | Marc Pryor | Docket : 99-AFC-1 | Technical Senior: | Roger E. Johnson |

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| Appendix B (f) (1) | A discussion of the range of reasonable alternatives to the project, or to the location of the project, including the no project alternative, which would feasibly attain most of the basic objectives of the project but would avoid or substantially lessen any of the significant effects of the project, and an evaluation of the comparative merits of the alternatives. In accordance with Public Resources Code section 25540.6(b), a discussion of the applicant's site selection criteria, any alternative sites considered for the project, and the reasons why the applicant chose the proposed site. | p.3-73 through 3-91, Section 3.11 | No | Please provide an evaluation of the comparative merits of transmission line route alternatives 1A and 1B. Table 3.11 was very helpful for a succinct comparison of the proposed and alternative sites. This table could be adapted or expanded to compare the transmission line routes. |
| Appendix B (f) (2) | An evaluation of the comparative engineering, economic, and environmental merits of the alternatives discussed in subsection (f)(1). | p.3-73 through 3-91, Section 3.11 | No | The information provided for App.B(f)(1) above will satisfy this requirement. |

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| Technical | Air Quality | Project <u>Elk Hills Power Project</u> | Technical | <u>Joseph M. Loyer</u> |
| Project | <u>Marc Pryor</u> | Docket <u>99-AFC-1</u> | Technical | <u>Keith Golden</u> |

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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Section 3.0 Section 5.2 | Yes | |
| Appendix B (g) (8) (A) | The information necessary for the air pollution control district where the project is located to complete a Determination of Compliance. | | Yes | Thomas Goff and Steve Tomlin are the district contacts. Mr. Goff can be reached at (661)326-6900, and Mr. Tomlin can be reached at (661)326-6968. |
| Appendix B (g) (8) (B) | The heating value and chemical characteristics of the proposed fuels, the stack height and diameter, the exhaust velocity and temperature, the heat rate and the expected capacity factor of the proposed facility. | Figures 3.4-4 and 3.4-5, Section 3.0 Page 3-29, Section 3.0 All other data on CD | Yes | |

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Technical Air Quality

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Technical Keith Golden

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| Appendix B (g) (8) (C) | A description of the control technologies proposed to limit the emission of criteria pollutants. | Page 5.2-19 to 30 Section 5.2.4 | Yes | |
| Appendix B (g) (8) (D) | A description of the cooling system, the estimated cooling tower drift rate, the rate of water flow through the cooling tower, and the maximum concentrations of total dissolved solids. | Page 5.2-34 Section 5.2.5.3 | Yes | |
| Appendix B (g) (8) (E) | The emission rates of criteria pollutants from the stack, cooling towers, fuels and materials handling processes, delivery and storage systems, and from all secondary emission sources. | Page 5.2-30 to 36 Section 5.2.5 Table 5.2-17 | Yes | |
| Appendix B (g) (8) (F) | A description of typical operational modes, and start-up and shutdown modes for the proposed project, including the estimated frequency of occurrence and duration of each mode, and estimated emission rate for each criteria pollutant during each mode. | Page 5.2-34 Section 5.2 | Yes | |

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| Appendix B (g) (8) (G) | The ambient concentrations of all criteria pollutants for the previous three years as measured at the three Air Resources Board certified monitoring stations located closest to the project site, and an analysis of whether this data is representative of conditions at the project site. The applicant may substitute an explanation as to why information from one, two, or all stations is either not available or unnecessary. | Page 5.2-8 to 10 Tables 5.2-3 to 7 | Yes | |
| Appendix B (g) (8) (H) | One year of meteorological data collected from either the Federal Aviation Administration Class 1 station nearest to the project or from the project site, or meteorological data approved by the California Air Resources Board or the local air pollution control district. | Appendix K-2 Page K-2-1 to 35 | Yes | |

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| Appendix B (g) (8) (H) (i) | If the data is collected from the project site, the applicant shall demonstrate compliance with the requirements of the U.S. Environmental Protection Agency document entitled "On-Site Meteorological Program Guidance for Regulatory Modeling Applications" (EPA - 450/4-87-013 (August 1995), which is incorporated by reference in its entirety.) | NA | NA | |
| Appendix B (g) (8) (H) (ii) | The data shall include quarterly wind tables and wind roses, ambient temperatures, relative humidity, stability and mixing heights, upper atmospheric air data, and an analysis of whether this data is representative of conditions at the project site. | Appendix K-2 CD | Yes | |
| Appendix B (g) (8) (I) | An evaluation of the project's direct and cumulative air quality impacts, consisting of the following: | | | |

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| Appendix B (g) (8) (I) (i) | A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct inert pollutant impacts of project construction activities on ambient air quality conditions, including fugitive dust (PM ₁₀) emissions from grading, excavation and site disturbance, as well as the combustion emissions [nitrogen oxides (NO _x), sulfur dioxide (SO ₂), carbon monoxide (CO), and particulate matter less than 10 microns in diameter (PM ₁₀)] from construction-related equipment; | Appendix K-3 CD | No | Please provide a discussion of construction emissions from all linear facilities. If this data is part of the aggregate set of numbers provided for construction emissions, please differentiate between construction of the power plant and all linear facilities. |

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| Appendix B (g) (8) (I) (ii) | A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct inert criteria pollutant (NO _x , SO ₂ , CO and PM ₁₀) impacts on ambient air quality conditions of the project during typical (normal) operation, and during shutdown and startup modes of operation. Identify and include in the modeling of each operating mode the estimated maximum emissions rates and the assumed meteorological conditions; and | Appendix K-4 CD | Yes | |

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| Appendix B (g) (8) (I) (iii) | A protocol for a cumulative air quality modeling impacts analysis of the project's typical operating mode in combination with other stationary emissions sources within a six mile radius which have received construction permits but are not yet operational, or are in the permitting process. The cumulative inert pollutant impact analysis should assess whether estimated emissions concentrations will cause or contribute to a violation of any ambient air quality standard. | Page 5.2-62 | Yes | |
| Appendix B (g) (8) (J) | If an emission offset strategy is proposed to mitigate the project's impacts under subsection (g)(1), provide the following information: | | | |
| Appendix B (g) (8) (J) (i) | The quantity of offsets needed; | Page 5.2-61 Table 5.2-32 | Yes | |
| Appendix B (g) (8) (J) (ii) | Potential offset sources, including location, and quantity of emission reductions; and | Confidential Filing | Yes | |

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| Appendix B (g) (8) (J) (iii) | Method of emission reduction. | Confidential Filing | Yes | |
| Appendix B (g) (8) (K) | A topographic map containing contour and elevation data, at a scale of 1:24,000, showing the area within 6 miles of the power plant site. | Map provided in section 3.0 | Yes | |
| Appendix B (h) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; | Table 6.1-1 | Yes | |

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| Appendix B (h) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | Table 6.1-1 | Yes | |
| Appendix B (h) (2) | A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A). | Table 6.1-1 | Yes | |
| Appendix B (h) (3) | The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency. | Page 5.2-63 Table 5.2-33 | Yes | |
| Appendix B (h) (4) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | Page 5.2-63 Table 5.2-34 | Yes | |

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 Technical **Public Health**
 Project Mark Pryor

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 Technical Chris Tooker

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|---------------------------|--|--|------------------------------|--|
| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | 5.15-1, 5.15-2, 5.15-11. | Yes. | |
| Appendix B (g) (9) (A) | A list of all toxic substances emitted by the project under normal operating conditions, which may cause an adverse public health impact as a result of acute, chronic, or sub-chronic exposure and to which members of the public may be exposed. This list should include, at a minimum, any pollutants emitted by the project that are listed pursuant to Health and Safety Code § 25249.8. | 5.15-3, 5.15-4, 5.15-15. | Yes. | |

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 Technical Chris Tooker

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| Appendix B (g) (9) (B) | A protocol describing the analysis which the applicant will conduct to determine the extent of potential public exposure to substances identified in subsection (g)(9)(A) resulting from normal facility operation. The analysis itself can be submitted after the AFC is complete. | 5.15-3 through 5.15-10 | Yes. | |
| Appendix B (g) (9) (C) | A map at a scale of 1:24,000, showing all terrain areas exceeding the elevation of the stack within a 10 mile radius of the facility. | 5.15-14 | Yes | |
| Appendix B (g) (9) (D) | A map at a scale of 1:24,000, showing the distribution of population and sensitive receptors within the area exposed to the substances identified in subsection (g)(9)(A). | 5.15-15 | Yes | |

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| Appendix B (h) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; | 6-5, 6-6, 6-7 | Yes | |
| Appendix B (h) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | 6-5, 6-6, 6-7 | Yes | |
| Appendix B (h) (2) | A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A). | 6-3 through 6-31 | Yes | |

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| Appendix B (h) (3) | The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency. | 5.15-12 | Yes | |
| Appendix B (h) (4) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | 6-13 | Yes | |

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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Section 5.6.1 Section 5.7.1 Appendix H Section 5.14 Section 5.18.3 | No | Discussion of cumulative impacts to Kern County Fire Department should be provided. |
| Appendix B (g) (11) (A) | A description of the safety training programs which will be required for construction and operation personnel. | Section 5.14.1.3 Table 5.14-2 | Yes | |
| Appendix B (g) (11) (B) | A complete description of the fuel handling system and the fire suppression system. | pg. 4.1, Section 4.1.3 pg. 3.44, Section 3.4.10 pg.3.28, Section 3.4.5 | Yes | Please note that there is no mention of the only Hazardous Material and Emergency Response team in the area located 45 minutes from the site in central Bakersfield city. |

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| Appendix B (g) (11) (C) | <p>Provide draft outlines of the Construction Health and Safety Program and the Operation Health and Safety Program, as follows:</p> <p>Construction Health and Safety Program:</p> <p>* Injury and Illness Prevention Plan (8 Cal. Code Regs., § 1509);</p> <p>* Fire Protection and Prevention Plan (8 Cal. Code Regs., § 1920);</p> <p>* Personal Protective Equipment Program (8 Cal. Code Regs., §§ 1514-1522).</p> <p>Operation Health and Safety Program:</p> <p>* Injury and Illness Prevention Program (8 Cal. Code Regs., § 3203);</p> <p>* Fire Prevention Plan (8 Cal. Code Regs., § 3221);</p> | <p>pg. 5.14-1, Section 5.14.1.2</p> <p>pg. 5.14-4, Section 5.14.1.2</p> <p>pg. 5.14-5, Section 5.14.1.2</p> <p>pg. 5.14-1, Section 5.14.1.2</p> <p>Not there.</p> <p>pg. 14-1, Section 5.14.1.2</p> | No | <p>Provide outline of Fire Prevention Plan.</p> <p>March 19, 1999</p> |

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|---------------------------|--|---|------------------------------|--|
| Appendix B (h) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; | Section 6.4.2.4 Section 6.4.2.5 Table 6.1-1 | Yes | |
| Appendix B (h) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | Table 6.1-1 | Yes | |
| Appendix B (h) (2) | A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A). | Section 6.4.2.4 | Yes | |

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| Appendix B (h) (3) | The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency. | pg. 5.14-9 Section 5.14.6 | Yes | |
| Appendix B (h) (4) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | pg. 5.14-9 Section 5.14.6 | Yes | |

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| Technical | T-Line Safety and Nuisance | Project <u> Elk Hills </u> | Technical | <u> Obed Odoemelam </u> |
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| Appendix B (i) (2) (A) | A discussion of the need for the additional electric transmission lines, substations, or other equipment, the basis for selecting principal points of junction with the existing electric transmission system, and the capacity and voltage levels of the proposed lines, along with the basis for selection of the capacity and voltage levels. | 3-27, 3-53 through 3-60. | Yes. | |
| Appendix B (i) (2) (B) | A discussion of the extent to which the proposed electric transmission facilities have been designed, planned, and routed to meet the transmission requirements created by additional generating facilities planned by the applicant or any other entity. | 3-52 through 3-64, Appendix I. | Yes. | |

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| Appendix B (b) (2) (C) | A detailed description of the design, construction, and operation of any electric transmission facilities, such as power lines, substations, switchyards, or other transmission equipment, which will be constructed or modified to transmit electrical power from the proposed power plant to the load centers to be served by the facility. Such description shall include the width of rights of way and the physical and electrical characteristics of electrical transmission facilities such as towers, conductors, and insulators. This description shall include power load flow diagrams which demonstrate conformance or nonconformance with utility reliability and planning criteria at the time the facility is expected to be placed in operation and five years thereafter; and | 3-60 through 3-63, Appendix I, 4-7, 4-8. | Yes. | |

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| Appendix B (b) (2) (D) | A description of how the route and additional transmission facilities were selected, and the consideration given to engineering constraints, environmental impacts, resource conveyance constraints, and electric transmission constraints. | 3-52 through 3-59, 3-79 through 3-84, Appendix I. | Yes. | |
| Appendix B (g) (18) (A) | The locations and a description of the existing switchyards and overhead and underground transmission lines that would be affected by the proposed project. | 3-52 through 3-60, Appendix I. | Yes. | |

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| Appendix B (g) (18) (B) | An estimate of the existing electric and magnetic fields from the facilities listed in (A) above and the future electric and magnetic fields that would be created by the proposed project, calculated at the property boundary of the site and at the edge of the rights of way for any transmission line. Also provide an estimate of the radio and television interference that could result from the project. | 4-2 through 4-7 | Yes. | |
| Appendix B (g) (18) (C) | Specific measures proposed to mitigate identified impacts, including a description of measures proposed to eliminate or reduce radio and television interference, and all measures taken to reduce electric and magnetic field levels. | 4-2 through 4-7 | Yes. | |

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| Appendix B (h) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; | 6-6, 7, 8. | Yes. | |
| Appendix B (h) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | 6-10 | Yes | |
| Appendix B (h) (2) | A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A). | 3-60 through 3-63, 4-1 through 4-6. Appendix E. | Yes. | |

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|---------------------------|--|--|------------------------------|--|
| Appendix B (h) (3) | The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency. | NA | NA | |
| Appendix B (h) (4) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | NA | NA | |

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| Technical | Hazardous Materials | Project <u> Elk Hills Power Project </u> | Technical | <u> Joseph M. Loyer </u> |
| Project | <u> Marc Pryor </u> | Docket <u> 99-AFC-1 </u> | Technical | <u> Rick Tyler </u> |

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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Section 3.0 Section 5.12 | Yes | |
| Appendix B (g) (10) (A) | A list of all materials used or stored on-site which are hazardous or acutely hazardous, as defined in Title 22, California Code of Regulations, § 66261.20 et seq., and a discussion of the toxicity of each material. | Table 3.4-4 Page 3-42 | Yes | |

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| Appendix B (g) (10) (B) | A map at a scale of 1:24,000 depicting the location of schools, hospitals, day-care facilities, emergency response facilities and long-term health care facilities, within the area potentially affected by any release of hazardous materials. | Map provided in section 3.0 | Yes | |
| Appendix B (g) (10) (C) | A discussion of the storage and handling system for each hazardous material used or stored at the site. | Table 5.12-1 Page 5.12-6 | Yes | |
| Appendix B (g) (10) (D) | The protocol that will be used in modeling potential consequences of accidental releases that could result in off site impacts. Identify the model(s) to be used, a description of all input assumptions, including meteorological conditions. The results of the modeling analysis can be submitted after the AFC is complete. | Page 5.12-4,5 | Yes | |

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| Appendix B (g) (10) (E) | A discussion of whether a risk management plan (Health and Safety Code § 25531 et seq.) will be required, and if so, the requirements that will likely be incorporated into the plan. | Page 5.12-4 | Yes | |
| Appendix B (g) (10) (F) | A discussion of measures proposed to reduce the risk of any release of hazardous materials. | Page 5.12-7 to 9 Section 5.12.3 | Yes | |
| Appendix B (g) (10) (G) | A discussion of the fire and explosion risks associated with the project. | Page 5.12-2 | Yes | |
| Appendix B (h) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; | Table 6.1-1 | Yes | |

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| Appendix B (h) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | Table 6.1-1 | Yes | |
| Appendix B (h) (2) | A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A). | Table 6.1-1 | Yes | |
| Appendix B (h) (3) | The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency. | Page 5.12-10 Table 5.12-2 | Yes | |
| Appendix B (h) (4) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | Page 5.12-10 Table 5.12-3 | Yes | |

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| Technical | Waste Management | Project <u> Elk Hills Power Project </u> | Technical | <u> Mike Ringer </u> |
| Project | <u> Marc Pryor </u> | Docket <u> 99-AFC-1 </u> | Technical | <u> Chris Tooker </u> |

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| Appendix B (b) (1) (C) | A detailed description of the design, construction and operation of the facilities, specifically including the power generation, cooling, water supply and treatment, waste handling and control, pollution control, fuel handling, and safety, emergency and auxiliary systems, and fuel types and fuel use scenarios; and | section 5.13.2 section 5.13.3 | YES | |
| Appendix B (e) (2) | A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations. | section 3.10 | YES | |

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| Technical | Waste Management | Project <u> Elk Hills Power Project </u> | Technical <u> Mike Ringer </u> |
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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | section 5.13.2 section 5.13.3 section 5.18.3 | YES | |

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| Appendix B (g) (12) (A) | A Phase I Environmental Site Assessment for the proposed power plant site using methods prescribed by the American Society for Testing and Materials (ASTM) document entitled "Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process" (Designation: E 1527-93, May 1993), which is incorporated by reference in its entirety; or an equivalent method agreed upon by the applicant and the CEC Staff that provides similar documentation of the potential level and extent of site contamination. | Appendix H | YES | |

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| Appendix B (g) (12) (B) | A description of each waste stream estimated to be generated during project construction and operation, including origin, hazardous or nonhazardous classification pursuant to Title 22, California Code of Regulations, § 66261.20 et seq., chemical composition, estimated annual weight or volume generated, and estimated frequency of generation. | section 5.13.2.1 section 5.13.2.3 section 3.4.7.4 | YES | |
| Appendix B (g) (12) (C) | A description of all waste disposal sites which may feasibly be used for disposal of project wastes. For each site, include the name, location, classification under Title 23, California Code of Regulations, § 2530 et seq., the daily or annual permitted capacity, daily or annual amounts of waste currently being accepted, the estimated closure date and remaining capacity, and a description of any enforcement action taken by local or state agencies due to waste disposal activities at the site. | section 5.13.1.1 section 5.13.1.2 section 5.13.1.3 | YES | |

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| Appendix B (g) (12) (D) | A description of management methods for each waste stream, including methods used to minimize waste generation, length of on- and off-site waste storage, re-use and recycling opportunities, waste treatment methods used, and use of contractors for treatment. | section 5.13.2.1 section 5.13.2.3 section 3.4.7.4 | YES | |
| Appendix B (h) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; | table 6.1-1, LORS sections 6.5.12,13 | YES | |

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| Appendix B (h) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | table 6.1-1, LORS sections 6.5.12,13 | YES | |
| Appendix B (h) (2) | A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A). | table 6.1-1, LORS sections 6.5.12,13 | YES | |
| Appendix B (h) (3) | The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency. | section 5.13.7 | YES | |
| Appendix B (h) (4) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | section 5.13.8 | YES | |

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| Adequacy | Adequat <input type="checkbox"/> Inadequat <input checked="" type="checkbox"/> | | Revision <u>0</u> | Dat <u>3/8/99</u> |
| Technical | Land Use | Project <u>Elk Hills Power Project</u> | Technical | <u>Amanda Stennick</u> |
| Project | <u>Marc Pryor</u> | Docket <u>99-AFC-1</u> | Technical | <u>Dale Edwards</u> |

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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Sections 5.7.1 through 5.7.3 Tables 5.7-1; -2; -3; -5 | Yes | |
| Appendix B (g) (3) (A) | A discussion of existing land uses and current zoning at the site, land uses and land use patterns within one mile of the proposed site and within one-quarter mile of any project-related linear facilities. Include: | Figures 5.7-1; -2 Tables 5.7-2; -3 | Yes | |

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|--------------------------------|---|---|------------------------------|---|
| Appendix B (g) (3) (A) (i) | An identification of residential, commercial, industrial, recreational, scenic, agricultural, natural resource protection, natural resource extraction, educational, religious, cultural, and historic areas, and any other area of unique land uses; | Figures 5.7-1; -2 Tables 5.7-2; -3 Sections 5.7.1.2 through .5 | No | Page 5.7-16 of the AFC states that maps illustrating the location of all Dept. of Conservation's Division of Oil and Gas (DOC) wells within 50 feet of the power plant and linear facility corridors are provided in Appendix J-9. Appendix J-9 contains biological resources maps. There are no maps in the AFC that show the DOC's oil and gas wells. To comply with the DOC's requirement, please provide a letter from the DOC stating that all their specifications for the map have been met, and the map indicating the presence of all DOC oil and gas wells within 50 feet of the power plant and linear facility corridors. |
| Appendix B (g) (3) (A) (ii) | A discussion of any trends in recent zoning changes and potential future land use development; | Sections 5.7.5; 5.18 | No | Information provided in Appendix B (g) (3) (A) (i) above will satisfy this regulation. |

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| Appendix B (g) (3) (A) (iii) | Identification of all discretionary reviews by public agencies initiated or completed within 18 months prior to filing the application for those changes or developments identified in subsection (g)(3)(A)(ii); and | Sections 5.7.5; 5.18 | No | Information provided in Appendix B (g) (3) (A) (i) above will satisfy this regulation. |
| Appendix B (g) (3) (A) iv) | Legible maps of the areas identified in subsection (g)(3)(A) potentially affected by the project, on which existing land uses, jurisdictional boundaries, general plan designations, specific plan designations, and zoning have been clearly delineated. | Figures 5.7-1; -2 | No | Figures do not show a regional representation of the jurisdictional boundaries of BLM land, and general plan land use designations. In addition, zoning districts described in Table 5.7-3 of the AFC, do not correspond to those in Figure 5.7-1. Please provide a clearly delineated base map of the zoning and general plan designations from Kern County Planning Dept; please indicate the regional jurisdictional boundaries of all state, federal, and privately-held lands that are in a preserve. On the map (or in Table 5.7-3) please indicate the areas of the Airport Approach Height Combining Zone; also designate the location of those parcels under the Williamson Act where the transmission line will cross. |

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| Appendix B (g) (3) (B) | A discussion of the compatibility of the proposed facilities with present and expected land uses, and conformity with any long-range land use plans adopted by any federal, state, regional, or local planning agency. The discussion shall identify the need, if any, for variances or any measures that would be necessary to make the proposal conform with permitted land uses | Sections 5.7.1.1; 5.7.2; 5.7.8; 5.18 Table 5.7-5 | No | Table 5.7-5 states that a "parcel map" is required for the project. Does this mean that the project does not conform to the Subdivision Map Act? In addition, the AFC states that the "site" is 12 acres in size. The leasing of a portion of a parcel may require the project to conform to requirements of the Subdivision Map Act. Please provide written evidence from Kern County Planning Department stating whether or not the project would require compliance with the Subdivision Map Act. Please provide the Assessor's Parcel Number and acreage of the subject parcel. Indicate also whether Elk Hills Power is leasing a portion of the subject parcel or whether the project will be situated on the entire parcel. In addition, please provide a discussion of all state and federal land use plans or policies that the project will have to comply with for those lands designated in the discussion under Appendix B (g) (3) (A) iv). |

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| Appendix B (g) (15) (B) | A map at a scale of 1:24,000 and written description of agricultural land uses found within all areas affected by the proposed project. The description shall include: | Section 5.6.1.1 Table 5.6-1 (No Map) | Yes | Although no map was provided in the AFC, information contained in the indicated sections of the AFC is adequate. |
| Appendix B (g) (15) (B) (i) | Crop types, irrigation systems, and any special cultivation practices; and | Section 5.6.1.1 Table 5.6-1 | Yes | |
| Appendix B (g) (15) (B) (ii) | Whether farmland affected by the project is prime, of statewide importance, or unique as defined by the Natural Resource Conservation Service of the California Department of Conservation. | Section 5.6.1.1 Table 5.6-1 | Yes | |
| Appendix B (g) (15) (C) | An assessment of the effects of the proposed project on soil resources and agricultural land uses. This decision shall include: | Section 5.6.1.1 | Yes | |
| Appendix B (g) (15) (C) (ii) | Direct and indirect effects on agricultural land uses; and | Sections 5.6.1.1; 5.6.2.1; 5.6.3; 5.7.1.1 through .5 | Yes | |

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| Appendix B (h) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; | Section 6.5.7 | No | Information provided in Appendix B (g) (3) (A) (i) and Appendix B (g) (3) (B) above will satisfy this regulation. In addition, Section 6.5.7 does not explicitly reference pages in the AFC wherein conformance, with each law or standard during both construction and operation of the facility is discussed. |
| Appendix B (h) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | Table 5.7-5 | No | Information provided in Appendix B (g) (3) (B) above will satisfy this regulation. |

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| Appendix B (h) (2) | A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A). | Section 5.7.3 | Yes | |
| Appendix B (h) (3) | The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency. | Table 5.7-4 | Yes | |
| Appendix B (h) (4) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | Table 5.7-5 | No | Information provided in Appendix B (g) (3) (B) above will satisfy this regulation. |

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| Adequacy | Adequat <input type="checkbox"/> Inadequat <input checked="" type="checkbox"/> | | Revision <u>0</u> | Dat <u>3/12/99</u> |
| Technical | Traffic and Transportation | Project <u>Elk Hills Power Project</u> | Technical | <u>Eric Knight</u> |
| Project | <u>Marc Pryor</u> | Docket <u>99-AFC-1</u> | Technical | <u>Dale Edwards</u> |

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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Sections 5.11.1 – 5.11.3; Pages 5.11-1 – 5.11-21 Section 5.11.5; Pages 5.11-21 – 5.11-22 Section 5.18.2; Page 5.18-1 Table 5.18-1; Page 5.18-2 | Yes | |
| Appendix B (g) (5) (A) | A regional transportation setting, on topographic maps (scale of 1:250,000), identifying the project location and major transportation facilities. Include a reference to the transportation element of any applicable local or regional plan. | Figure 5.11-2 Section 5.11.1.1; Pages 5.11-1 – 5.11-4 | Yes | |

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| Appendix B (g) (5) (B) | An identification, on topographic maps at a scale of 1:24,000 and a description of existing and planned roads, rail lines, including light rail, bike trails, airports, bus routes serving the project vicinity, pipelines, and canals in the project area affected by or serving the proposed facility. For each road identified, include the following information, where applicable: | Figure 3.2-1 Section 5.11.1; Pages 5.11-3 – 5.11-4 | No | The AFC identifies several planned transportation corridors but does not identify these on any maps. Please identify the location of these planned transportation corridors on a map at a scale of 1:24,000. |
| Appendix B (g) (5) (B) (i) | Road classification and design capacity; | Table 5.11-2; Page 5.11-7 Table 5.11-3; Page 5.11-8 | Yes | |
| Appendix B (g) (5) (B) (ii) | Current daily average and peak traffic counts; | Table 5.11-2; Page 5.11-7 Table 5.11-3; Page 5.11-8 | Yes | |

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| Appendix B (g) (5) (B) (iii) | Current and projected levels of service before project development, during construction, and during project operation; | Section 5.11.1.4; Pages 5.11-4 – 5.11-8 Section 5.11.2.3; Pages 5.11-13 – 5.11-14; Tables 5.11-6 and 5.11-7 Section 5.11.2.4; Pages 5.11-20 – 5.11-21 | Yes | |
| Appendix B (g) (5) (B) (iv) | Weight and load limitations; | | No | Please provide weight and load limitations for County roadway and State highway systems. |
| Appendix B (g) (5) (B) (v) | Estimated percentage of current traffic flows for passenger vehicles and trucks; and | Table 5.11-2; Page 5.11-7 Section 5.11.1.4; Page 5.11-8 | Yes | |
| Appendix B (g) (5) (B) (vi) | An identification of any road features affecting public safety. | | No | Please provide a discussion of any road features affecting public safety and any areas of high accident occurrence within the affected area. If none, please provide a statement as such. |

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| Appendix B (g) (5) (C) | A description of any new, planned, or programmed transportation facilities in the project vicinity, including those necessary for construction and operation of the proposed project. Specify the location of such facilities on topographic maps at a scale of 1:24,000. | Section 5.11.1.1; Pages 5.11-3 – 5.11-4 Section 5.11.2.1; Pages 5.11-9 – 5.11-10 Figure 3.2-2 | No | The AFC identifies several planned transportation corridors but does not identify these on any maps. Please identify the location of these planned transportation corridors on a map at a scale of 1:24,000. |

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| Appendix B (g) (5) (D) | An assessment of the construction and operation impacts of the proposed project on the transportation facilities identified. Include anticipated project-specific traffic, estimated changes to daily average and peak traffic counts, levels of service, and traffic/truck mix, and the impact of construction of any facilities identified in subsection (g)(5)(C). | Section 5.11.2; Pages 5.11-9 – 5.11-21 | No | The AFC assumes that 61% of the construction workers will commute from Bakersfield and that their preferred travel route will be “west along Highway 119 to Elk Hills Rd” (pg. 5.11-3). In order to reach Hwy 119 from Bakersfield, it could be assumed that commuters would use Highway 99, but AFC Table 5.11-7 does not provide an analysis of the construction-related traffic impacts on Hwy 99. Also, the AFC assumes that 70% of the construction-related truck traffic will originate in Bakersfield, but Table 5.11-8 does not provide an analysis of impacts to Highway 99. Please provide a discussion of the construction-related commute and truck traffic impacts to Highway 99 as required by Appendix B (g) (5) (D) of the siting regulations. In addition, AFC Tables 5.11-6 and 5.11-7 only provide an analysis of the changes in Average Daily Traffic counts. Appendix B (g) (5) (D) of the siting regulations also requires an assessment of project-related changes to Peak Hour Traffic counts. Please provide an analysis of the changes to Peak Hour Traffic counts on all affected local roads. |

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| Appendix B (g) (5) (E) | A discussion of project-related hazardous materials to be transported to or from the project during construction and operation of the project, including the types, estimated quantities, estimated number of trips, anticipated routes, means of transportation, and any transportation hazards associated with such transport. | Section 5.11.2.3; Page 5.11-17 Section 5.11.2.4; Pages 5.11-20 – 5.11-21 | No | The AFC does not sufficiently identify the anticipated route for transportation of anhydrous ammonia (pg. 5.11-20). In addition, Table 3.4-4 lists other hazardous materials anticipated to be used at the power plant, many of which are stored on site in large quantities (over 1,000 gallons) for 30 days. For each type of hazardous material anticipated to be transported to the plant, please provide the estimated quantity, number of trips, anticipated routes, means of transport, and any transportation hazards associated with such transport. In addition, the AFC does not identify the anticipated routes for hazardous wastes transported from the project during construction and operation. Please provide the information required by Appendix B (g) (5) (E) for hazardous wastes transported from the project during construction and operation. |

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| Appendix B (h) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; | Table 6.1-1 Section 6.5.11; Pages 6-26 – 6-28 | Yes | |
| Appendix B (h) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | Table 5.11-10; Page 5.11-22 | Yes | |
| Appendix B (h) (2) | A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A). | Table 6.1-1 | Yes | |

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| Appendix B (h) (3) | The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency. | Table 5.11-10; Page 5.11-22 | Yes | |
| Appendix B (h) (4) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | Table 5.11-11; Page 5.11-23 | Yes | |

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| Technical | Noise | Project <u> Elk Hills Project </u> | Technical | <u> Kisabuli </u> |
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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Section 9.5 | Yes | |
| Appendix B (g) (4) (A) | A land use map which identifies residences, hospitals, libraries, schools, places of worship, or other facilities where quiet is an important attribute of the environment within the area impacted by the proposed project. The area impacted by the proposed project is that area where there is a potential increase of 5 dB(A) or more, during either construction or operation, over existing background levels. | Figure 5.9-1 | Yes | |

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| Appendix B (g) (4) (B) | A description of the ambient noise levels at those sites identified under subsection (g)(4)(A) which the applicant believes provide a representative characterization of the ambient noise levels in the project vicinity, and a discussion of the general atmospheric conditions, including temperature, humidity, and the presence of wind and rain at the time of the measurements. The existing noise levels shall be determined by taking noise measurements for a minimum of 25 consecutive hours at a minimum of one site. Other sites may be monitored for a duration at the applicant's discretion during the same 25-hour period. The results of the noise level measurements shall be reported in L_{eq} (equivalent sound or noise level), L_{dn} (day-night sound or noise level) or CNEL (Community Noise Equivalent Level) in units of dB(A). The L_{10} , L_{50} , and L_{90} values (noise levels exceeded 10 percent, 50 percent, and 90 percent of the time, respectively) shall also be reported. | Pages 9.5-1 thro' 9.5-3 | Yes | |

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| Appendix B (g) (4) (C) | A description of the major noise sources of the project, including the range of noise levels and the tonal and frequency characteristics of the noise emitted. | Tables 9.5-1 & 9.5-2 | Yes | |
| Appendix B (g) (4) (D) | An estimate of the project noise levels, during both construction and operation, at residences, hospitals, libraries, schools, places of worship, or other facilities where quiet is an important attribute of the environment, within the area impacted by the proposed project. | Figure 9.5-1 | Yes | |
| Appendix B (g) (4) (E) | An estimate of the project noise levels within the project site boundary during both construction and operation and the impact to the workers at the site due to the estimated noise levels. | Page 9.5-6 | Yes | |

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| Technical | Noise | Project <u> Elk Hills Project </u> | Technical | <u> Kisabuli </u> |
| Project | <u> Marc Pryor </u> | Docket <u> 99-AFC-1 </u> | Technical | <u> Steve Baker </u> |

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| Appendix B (g) (4) (F) | The audible noise from existing switchyards and overhead transmission lines that would be affected by the project, and estimates of the future audible noise levels that would result from existing and proposed switchyards and transmission lines. Noise levels shall be calculated at the property boundary for switchyards and at the edge of the rights-of-way for transmission lines. | Page 9.5-6 | Yes | |
| Appendix B (h) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; | Table 6.1-1 | Yes | |

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| Adequacy | Adequat <u> x </u> Inadequat <u> </u> | | Revision <u> 0 </u> | Dat <u> 3/11/99 </u> |
| Technical | Noise | Project <u> Elk Hills Project </u> | Technical | <u> Kisabuli </u> |
| Project | <u> Marc Pryor </u> | Docket <u> 99-AFC-1 </u> | Technical | <u> Steve Baker </u> |

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| Appendix B (h) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | Table 9.5-3 | Yes | |
| Appendix B (h) (2) | A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A). | Page 9.5-7 | Yes | |
| Appendix B (h) (3) | The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency. | Page 9.5-7 | Yes | |
| Appendix B (h) (4) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | Table 6.1-1 | Yes | |

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| Technical | Visual Resources | Project <u> Elk Hills Power Project </u> | Technical | <u> David Flores </u> |
| Project | <u> Marc Pryor </u> | Docket <u> 99-AFC 1 </u> | Technical | <u> Dale Edwards </u> |

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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | AFC pg. 5.10-3, Section 5.10.1.2 AFC pgs.5.10-11 through 17, Sec. 5.10.2.2 & 5.10.2.3 AFC pgs. 5.10-17 & 18, Sec. 5.10.3 & 4 AFC pg. 5.10-18, Sec. 5.10.5 | YES | |
| Appendix B (g) (6) (A) | Descriptions of the existing visual setting of the vicinity of the project, the region that can be seen from the vicinity of the project, and the proposed project site. Include: | AFC pg. 5.10-1 & 2, Sec. 5.10.1.1 AFC pg. 5.10-4, Sec. 5.10.1.5 | YES | |
| Appendix B (g) (6) (A) (i) | Topographic maps at a scale of 1:24,000 of the areas from which the project may be seen, identification of the view areas most sensitive to the potential visual impacts of the project, and the locations where photographs were taken for (g)(6)(E); | AFC Section 5.10, Figure 5.10-1 | YES | |

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| Appendix B (g) (6) (A) (ii) | Elevations of any existing structures on the site; and | | YES | |
| Appendix B (g) (6) (A) (iii) | The visual properties of the topography, vegetation, and any modifications to the landscape as a result of human activities. | AFC pg. 5.10-1 & 2, Sec. 5.10.1.1 AFC pg. 5.10-8, Sec. 5.10.1.6 AFC pg. 5.10-3, Sec. 5.10.1.2 | YES | |
| Appendix B (g) (6) (B) | An assessment of the visual quality of those areas that will be impacted by the proposed project. | AFC pgs. 5.10-5,6,7,8 & 9 Section 5.10.1.6 | YES | |

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| Technical | Visual Resources | Project <u> Elk Hills Power Project </u> | Technical <u> David Flores </u> |
| Project | <u> Marc Pryor </u> | Docket <u> 99-AFC 1 </u> | Technical <u> Dale Edwards </u> |

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| Appendix B (g) (6) (C) | After discussions with staff and community residents who live in close proximity to the proposed project, identify the scenic corridors and any visually sensitive areas potentially affected by the proposed project, including recreational and residential areas. Indicate the approximate number of people using each of these sensitive areas and the estimated number of residences with views of the project. For purposes of this section, a scenic corridor is that area of land with scenic natural beauty, adjacent to and visible from a linear feature, such as a road, or river. | AFC pg. 5.10-3 & 4, Section 5.10.1.4 AFC pgs. 5.10- 5,6,7,8,9 & 10 AFC Section 5.10.1.6 | YES | |
| Appendix B (g) (6) (D) | A description of the dimensions, color, and material of each major visible component of the project. | AFC pgs. 5.10-11 & 12, Section 5.10.2.2 Table 5.10-2, AFC pg. 5.10-12 | YES | |

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| Appendix B (g) (6) (E) | Full-page color photographic reproductions of the existing site, and full-page color simulations of the proposed project in the existing setting from each location representative of the view areas most sensitive to the potential visual impacts of the project. | AFC Section 5.10, Figure 5.10-2a through 5.10-6b (5 existing views & 5 simulations) | YES | |
| Appendix B (g) (6) (F) | An assessment of the visual impacts of the project, including light and glare, and visible plumes. | AFC pgs. 5.10-11 & 12, Sec. 5.10.2.2 AFC pgs. 5.10-13, 14, 15, 16 & 17, Sec. 5.10.2.3 | YES | |
| Appendix B (h) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; | AFC pgs. 6-25 & 26, Section 6.5.10 | YES | |

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| Appendix B (h) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | AFC pg. 5.10-20, Section 5.10.7 Table 5.10.4 | YES | |
| Appendix B (h) (2) | A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A). | AFC pgs. 5.10-18 & 19 Section 5.10.6/ Table 5.10-3 AFC pg. 5.10-19 | YES | |
| Appendix B (h) (3) | The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency. | AFC pg. 5.10-20, Section 5.10.7 Table 5.10.4 | YES | |
| Appendix B (h) (4) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | AFC PG. 5.10-20, Section 5.10-8 | YES | |

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| Technical | Cultural Resources | Project <u> Elk Hills Power Project </u> | Technical <u> Dorothy Torres </u> |
| Project | <u> Marc Pryor </u> | Docket <u> 99-AFC-1 </u> | Technical <u> Dale Edwards </u> |

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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | AFC VOL I, p. 1-13, Confidential Appendix p. 42-48 Confidential Appendix p. 49-51. AFC VOL 1, p. 5.16-31 Confidential Appendix p.V, and p. 49-51 Confidential Appendix p. 51 | YES | |
| Appendix B (g) (2) (A) | A brief summary of the ethnology, prehistory, and history of the region in which the project site and related facilities are located and maps at a scale of 1:24,000, indicating areas of ethnographic occupation. The region may vary depending on the extent of the territory occupied or used by prehistoric cultures indigenous to the area in which the project is located. | AFC VOL 1, 5.16-3 through 5.16-15 AFC VOL 1 Fig. 5.16-2 Confidential Appendix p.15, Fig 2. | YES | |

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| Appendix B (g) (2) (B) | A description of all literature searches and field surveys used to provide information about known cultural resources in the project vicinity. If survey records of the area potentially physically affected by the project are not available, and the area has the potential for containing significant cultural resources, the applicant shall submit a new or revised survey for any portion of the area lacking comprehensive survey data. A discussion of the dates of the surveys, methods used in completing the surveys, and the identification and qualification of the individuals conducting the surveys shall be included. | Confidential Appendix p.24-42 (including table) AFC VOL II, Appendix L , p. 2-1 AFC VOL I, Fig. 5.16-2 (map) Confidential Appendix p. 22 & 23. Confidential Appendix p. 22 AFC VOL II, Appendix L p. 5-1 | YES | |

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| Appendix B (g) (2) (C) | A discussion of the sensitivity of the project area described in subsection (g)(2)(A) and the presence and significance of any known archeological sites and other cultural resources that may be affected by the project. Information on the specific location of archeological resources shall be included in a separate appendix to the application and submitted to the Commission under a request for confidentiality pursuant to Title 20, California Code of Regulations, § 2501 et seq. | Confidential Appendix p.7 Confidential Appendix Table 2 & 3. P. 42-48 Confidential Appendix p. 49 & 50 AFC VOL I, p 5.16-22 through 24 Confidential Appendix Received | YES | |
| Appendix B (g) (2) (D) | A summary of contacts and communications with, and responses from, Native American representatives who may have an interest in heritage lands and/or resources potentially affected by the proposed project. | Confidential Appendix, Attachment E AFC VOL II Appendix L3 | YES | |

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| Appendix B (g) (2) (E) | In the discussion on mitigation and monitoring prepared pursuant to subsection (g)(1), a discussion of any educational programs proposed to enhance awareness of potential impacts to archeological resources by employees and contractors, measures proposed for mitigation of impacts to known cultural resources, and a set of contingency measures for mitigation of potential impacts to previously unknown cultural resources. | Confidential Appendix p. 51 AFC VOL I, p. 5.16-31 | YES | |
| Appendix B (h) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; | AFC VOL I, Sec 6 p. 21-23 AFC VOL I, p. 5.6-33 Confidential Appendix, Attachments C & D | YES | |

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| Appendix B (h) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | AFC VOL 1, p.5.16-33 | YES | |
| Appendix B (h) (2) | A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A). | Confidential Appendix p.4-6 | YES | |
| Appendix B (h) (3) | The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency. | AFC VOL 1, p.5.16-33 | YES | |
| Appendix B (h) (4) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | AFC VOL 1, p.5.16-33 | YES | |

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 Project Manager: Marc Pryor Docket 99-AFC-1 Technical Dale Edwards

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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | <p>AFC, Vol. I 5.8.1.1 Project Area, pages 5.8-1 to 5.8-3</p> <p>5.8.2.3 Potential Construction Related Impacts Construction Impacts on Employment and Economy, pages 5.8-15 to 5.8-17</p> <p>5.8.2.4 Potential Operation-Related Impacts Operation Impacts on Employment and the Economy, page 5.8-18</p> <p>5.8.4 Mitigation Measures, page 5.8-20</p> <p>5.8.5 Significant Unavoidable Adverse Impacts, page 5.8-20</p> | Yes | |

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| Appendix B (g) (7) (A) | A description of the socioeconomic circumstances of the vicinity and region affected by construction and operation of the project. Include: | | | |
| Appendix B (g) (7) (A) (i) | The economic characteristics, including the economic base, fiscal resources, and a list of the applicable local agencies with taxing powers and their most recent and projected revenues; | 5.8.1.7 Employment and Economy, pages 5.8-8 to 5.8-9 5.8.1.8 Fiscal Resources, page 5.8-9 | No | Provide projected Kern County revenues. See La Paloma AFC errata sheet 5.10-6a/table 5.10-3A for guidance. |
| Appendix B (g) (7) (A) (ii) | The social characteristics, including population and demographic and community trends; | 5.8.1.2 Population, page 5.8-3 | Yes | |
| Appendix B (g) (7) (A) (iii) | Existing and projected unemployment rates; | 5.8.1.7 Employment and Economy, pages 5.8-8 to 5.9-9 | No | Please provide an estimate of projected unemployment for the construction period, in Kern County. |

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| Appendix B (g) (7) (A) (iv) | Availability of skilled workers by craft required for construction and operation of the project; | 5.8.2.3 Potential Construction-Related Impacts Construction Impacts on Employment and Economy, pages 5.8- 15 to 5.8-17 5.8.2.4 Potential Operation-Related Impacts Operation Impacts on Population, page 5.8-17 and Table 5.8-1 Population Breakdown by Community for Years 1998, 2000. 2010, page 5.8-3 | Yes | |
| Appendix B (g) (7) (A) (v) | Availability of temporary and permanent housing; and | 5.8.1.3 Housing, page 5.8-4 | Yes | |

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| Appendix B (g) (7) (A) (vi) | Capacities, existing and expected use levels, and planned expansion of utilities (gas, water and waste) and public services, including fire protection, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information for each school district shall include current enrollment and yearly expected enrollment by grade level groupings, excluding project-related changes, for the duration of the project construction schedule. | 5.8.2.3 Potential Construction Related Impacts Construction Impacts on Utilities, page 5.8-15 Construction Impacts on Emergency and Other public services, page 5.8-15 Construction Impacts on Education, pages 5.8-14 and 5.8-15 | Yes | |
| Appendix B (g) (7) (B) | A discussion of the socioeconomic impacts caused by the construction and operation of the project, including: | | | |

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| Appendix B (g) (7) (B) (i) | The number of workers to be employed each month by craft during construction and operation; | Table 5.8-5 Construction Personnel Requirements By Month and Table 5.8-6 Plant Operation Workforce, pages 5.8-11 to 5.8-12 | Yes | |
| Appendix B (g) (7) (B) (ii) | An estimate of the number and percentage of workers who will commute daily, commute weekly, or relocate in order to work on the project; | 5.8.2.3 Potential Construction-Related Impacts Construction Impacts on Population, page 5.8-10 | Yes | |
| Appendix B (g) (7) (B) (iii) | An estimate of the potential population increase caused directly and indirectly by the project; | 5.8.2.3 Potential Construction-Related Impacts, pages 5.8-10 to 5.8-14 5.8.2.4 Potential operation-related Impacts Operation Impacts on Population, page 5.8-17 | Yes | |

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| Appendix B (g) (7) (B) (iv) | The potential impact of population increase on housing during the construction and operations phases; | 5.8.2.3 Potential Construction-Related Impacts Construction Impacts on Housing, page 5.8-14 | Yes | |

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| Appendix B (g) (7) (B) (v) | The potential impacts, including additional costs, on utilities (gas, water and waste) and public services, including fire, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information on schools shall include project-related enrollment changes by grade level groupings and associated facility and staffing impacts by school district during the construction and operation phases; | 5.8.2.3 Potential Construction-Related Impacts Construction Impacts on Education, Construction Impact on Utilities, Construction Impacts on Emergency and other Public Services, pages 5.8-14 & 15. 5.8.2.4 Potential Operation-Related Impacts Operation Impacts on Education, Operation Impacts on Utilities, Operation Impacts on Emergency and Public Services and Facilities, pages 5.8-17 to 5.8-18. | Yes | |

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| Appendix B (g) (7) (B) (vi) | An estimate of applicable school impact fees; | | No | If applicable, please provide an estimate of school impact fees. Also, please provide the number of square feet that the impact fee will be based on. |
| Appendix B (g) (7) (B) (vii) | An estimate of the total construction payroll and an estimate of the total operation payroll; | 5.8.2.3 Potential Construction-Related Impacts Construction Impacts on Fiscal Resources, page 5.8-17. | Yes | |
| Appendix B (g) (7) (B) (viii) | An estimate of the expenditures for locally purchased materials for the construction and operation phases of the project; and | 5.8.2.3 Potential Construction-Related Impacts Construction Impacts on Fiscal Resources, page 5.8-17 5.8.2.4 Potential Operation-Related Impacts Operation Impacts on Fiscal Resources, pages 5.8-18 and 5.8-19 | Yes | |

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| Appendix B (g) (7) (B) (ix) | An estimate of the capital cost of the project of the potential impacts on tax revenues from construction and operation of the project. | 5.8.2.3 Potential Construction-Related Impacts Construction Impacts on Fiscal Resources, page 5.8-17 5.8.2.4 Potential Operation-Related Impacts Operation Impacts on Fiscal Resources, pages 5.8-18 to 5.8-19 | Yes | |
| Appendix B (h) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; | 6.5.8 Socioeconomics, pages 6-22 and 6-23 6.0 Laws, Ordinances, Regulations and Standards (LORS) Table 6.1-1. Elk Hills Power Plant Summary of LORS and Compliance, page 16. | No | Please include a discussion of the Kern County General Plan in regard to socioeconomics. See Sunrise 10.0 Laws, Ordinances, Regulations, and Standards, Table 10-1., 8.8 socioeconomics, page 10-14. |

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| Appendix B (h) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | See above | No | See the comment above. |
| Appendix B (h) (2) | A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A). | 5.8.7 LORS Compliance, page 5.8- 23 | No | Please discuss conformity issue in regard to the General Plan items related to socioeconomics |

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Revision 0 Dat 3/10/99

Technical Area: Socioeconomics Project Elk Hills Power Project Technical Dr. Joseph

Project Manager: Marc Pryor Docket 99-AFC-1 Technical Dale Edwards

| SITING REGULATIONS | INFORMATION | AFC PAGE NUMBER AND SECTION NUMBER | ADEQUAT E YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
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| Appendix B (h) (3) | The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency. | 5.8.8 Involved Agencies and Agency Contacts, page 5.8-23 | No | Please refer to p. 8.8-39 (see attached) in the 1/27/99 Supplement to the Sunrise Project AFC (98-AFC-4). Note that for the Elk Hills area west of Skyline Road, the fire contact would be the "shift captain" at the Kern County Fire Department-Taft Station. The Taft station can be reached at (805) 765-2155. |
| Appendix (h) (4) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | 5.8.9 Permits Required and Permit Schedule, page 5.8-23 | N/A | N/A |

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| Adequacy | Adequat <input type="checkbox"/> Inadequat <input checked="" type="checkbox"/> | | Revision <u>1</u> | Dat <u>3/10/99</u> |
| Technical | Biological Resources | Project <u>Elk Hills</u> | Technical | <u>Linda Spiegel</u> |
| Project | <u>Marc Pryor</u> | Docket <u></u> | Technical | <u>James Brownell</u> |

| SITING REGULATION S | INFORMATION | AFC PAGE NUMBER AND SECTION NUMBER | ADEQUAT E YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|----------------------------|---|--|------------------------------|---|
| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Sec 1.9.3, pg 1-7, 1-8; Sec 5.3, pg 5.3.1 –5.3-36 | No | Please provide a discussion of existing biological resources located in areas specific to the project site and related facilities. Information provided should be based on current surveys. See other items below |
| Appendix B (g) (13) (A) | A regional overview and discussion of biological resources, with particular attention to sensitive biological resources near the project, and a map at a scale of 1:100,000 (or some other suitable scale) showing their location in relation to the project. | Sec 5.3.1, pg 5.3-2 – 5.3-18 | No | Please provide a map of the regional area showing biological resources, including location and boundaries of significant land uses/ownership (CNLM, BLM, CDFG, Ecological Reserves, Occidental Elk Hills Conservation Area, etc.), CNDDDB data, and data from past surveys. |

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Technical **Biological Resources**

Project Elk Hills

Technical Linda Spiegel

Project Marc Pryor

Docket

Technical James Brownell

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| Appendix B (g) (13) (B) | A discussion and detailed maps at a scale of 1:6,000, of the biological resources at the site of the proposed project and related facilities, and in areas adjacent to them, out to a mile from the site and 1000 feet from the outer edge of linear facility corridors. Include a list of the species actually observed and those with a potential to occur. The discussion and maps shall address the distribution of community types, denning or nesting sites, population concentrations, migration corridors, breeding habitats, and the presence of sensitive biological resources. | Sec 5.3.1, pg 5.3-2 – 5.3-18; Sec 5.3.2, pg 5.3 –18 – 5.3-21; Table 5.3-1; Table 5.3-2, Table5.3-3; Appendix J | No | Please provide habitat maps showing all habitat types identified in the Application For Certification that occur at the project site and linear facilities. Discussion and maps of biological resources should include the plant site, and areas one-mile from plant site, and all linear facilities and areas 1000 ft from linear facilities. Maps must include data from spring surveys. |

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| Appendix B (g) (13) (C) | A description of all studies and surveys used to provide biological information about the project site, including seasonal surveys and copies of the California Department of Fish and Game's Natural Diversity Data Base Survey Forms, "California Native Species Field Survey Forms", and "California Natural Community Field Survey Forms", completed by the applicant. Include the dates and duration of the studies, methods used to complete the studies, and the names and qualifications of individuals conducting the studies. | Sec 5.3, pg 5.3-1; Sec 5.3.1, pg 5.3-2; Sec 5.3.2.1, pg 5.3-18, 19; Sec7,pg 7-1. Appendix J-2 Appendix J-4 Appendix J-7 | No | Please provide a detailed description of survey methods (e.g. transect widths and USFWS and CDFG protocols) used in the Phase I and Phase II surveys, and the names and qualifications of individuals conducting the surveys. Spring surveys for plants, nesting birds, natal dens, and reptiles (particularly blunt-nosed leopard lizards) must be completed. |

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Technical Biological Resources

Project Elk Hills

Technical Linda Spiegel

Project Marc Pryor

Docket

Technical James Brownell

California Energy Commission - EFS & EPD

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| Appendix B (g) (13) (E) (ii) | All measures proposed to mitigate any adverse impacts, including any proposals for off-site mitigation; and | Sec 5.3.4, pg 5.3-27 – 5.3-31 | Yes | |
| Appendix B (g) (13) (E) (iii) | Any educational programs proposed to enhance employee awareness in order to protect biological resources. | Sec 5.3.4, pg 5.3-27 | Yes | |
| Appendix B (g) (13) (F) | A discussion of compliance and monitoring programs proposed to ensure the effectiveness of mitigation measures incorporated into the project. | Sec 5.3.4, pg 5.3-28 – 5.3-30 | Yes | |
| Appendix B (g) (13) (G) | A discussion of native fish and wildlife species of commercial and/or recreational value that could be impacted by the project. | Sec 5.3.1.4, pg 5.3-17 | No | Provide discussion of native wildlife species of commercial and/or recreational value that could be impacted by the project. |
| Appendix B (g) (13) (H) | For purposes of this section, sensitive biological resources are one of the following: | | | |

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| Technical | Biological Resources | Project <u> Elk Hills </u> | Technical <u> Linda Spiegel </u> |
| Project | Marc Pryor | Docket | Technical <u> James Brownell </u> |

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| Appendix B (g) (13) (H) (i) | Species listed under state or federal Endangered Species Acts; | Sec 5.3.1.3, pg 5.3-3 – 5.3-14 | Yes | |
| Appendix B (g) (13) (H) (ii) | Resources defined in sections 1702 (q) and (v) of Title 20 of the California Code of Regulations; and | Sec 5.3.1.3, pg 5.3-3 – 5.3-14 | Yes | |
| Appendix B (g) (13) (H) (iii) | Species or habitats identified by legislative acts as requiring protection. | Sec 5.4.1.3, pg 5.4-12; Sec 5.3.1.4, pg 5.3-15 – 5.3-18. | Yes | |
| Appendix B (h) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; | Table 5.4-3, Table 5.4- 4, Table 5.5-6; Table 6.1-1 Sec 5.3, pg 5.3-1; Sec 5.3.7, pg 5.3-32; Sec 6.5.3, pg 6-15 – 6- 17; Sec 6.5.3.4, pg 6- 17. | Yes | |

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| Appendix B (h) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | Table 5.4-3, Table 5.4-4 Table 5.3-5 | Yes | |
| Appendix B (h) (2) | A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A). | Sec 5.4.1.3, pg 5.4-12 Sec 6.5.3.4, pg 6-17 | Yes | |
| Appendix B (h) (3) | The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency. | Table 5.4-3 Table 5.3-5 | Yes | |
| Appendix B (h) (4) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | Table 5.4-4 Table 5.3-6 | Yes | |

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| Adequacy | Adequat <input type="checkbox"/> Inadequat <input checked="" type="checkbox"/> | Revision <u>0</u> | Dat <u>3/12/99</u> |
| Technical | Water Resources | Project <u>Elk Hills Power Project</u> | Technical <u>Joe O'Hagan</u> |
| Project | <u>Marc Pryor</u> | Docket <u>99-AFC-1</u> | Technical <u>Jim Brownell</u> |

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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Pages 5.4-2 to 5.4-13; 5.4-15 to 5.4-24; 5.13-6 to 5.13-8, 5.18-1 to 5.18-10. | No | Need to describe the existing West Kern Water District facilities that the water supply pipeline connects to. Need to discuss potential impacts to the West Kern Water District's infrastructure, such as pipelines, water treatment facilities, etc. |
| Appendix B (g) (14) (A) | All information required by the Regional Water Quality Control Board in the region where the project will be located to apply for: | | | |
| Appendix B (g) (14) (A) (i) | Waste Discharge Requirements; and | Pages 3-40 and 5.4-20. | No | Provide the information necessary for an application for a Waste Discharge Requirement. |
| Appendix B (g) (14) (A) (ii) | a National Pollutant Discharge Elimination System Permit. | Not applicable. | | |

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Technical Joe O'Hagan

Project Marc Pryor

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| Appendix B (g) (14) (B) | A description of the hydrologic setting of the project. The information shall describe, in writing and on maps at a scale of 1:24,000, the chemical and physical characteristics of the following water bodies that may be affected by the proposed project: | Pages 5.4-13 | Yes | |
| Appendix B (g) (14) (B) (i) | Ground water bodies and related geologic structures; | Pages 5.4-2 to 5.4-11. | Yes | |
| Appendix B (g) (14) (B) (ii) | Surface water bodies; and | Pages 5.4-11 to 5.4-13. | Yes | |
| Appendix B (g) (14) (C) | A description of the water to be used and discharged by the project. This information shall include: | Pages 3-29 to 3-40. | Yes | |

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Project Elk Hills Power Project

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| Appendix B (g) (14) (C) (i) | Source of the water and the rationale for its selection, and if fresh water is to be used for power plant cooling purposes, a discussion of all other potential sources and an explanation why these sources were not feasible; | Page 5.4-17 & 3-90. | No | Need to provide a detailed discussion why fresh water is the proposed source. Regulations calls for a discussion of all potential sources of water. More information is needed on why other non-potable groundwater sources are not suitable, produced water, or effluent are not appropriate. Stating that the TDS is too high is not sufficient. |
| Appendix B (g) (14) (C) (ii) | The physical and chemical characteristics of the source and discharge water; | Pages 3-30 to 3-35; Table 3.4-3; Figures 3.4-7 & 3.4-8. | Yes | |
| Appendix B (g) (14) (C) (iii) | Average and maximum daily and annual water demand and waste water discharge for both the construction and operation phases of the project; and | Figures 3.4-7 & 3.4-8. | Yes | |
| Appendix B (g) (14) (C) (iv) | A description of all facilities to be used in water conveyance, treatment, and discharge. Include a water mass balance diagram. | Figures 3.4-7 & 3.4-8, Pages 3-35 to 3-40. | Yes | |

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| Appendix B (g) (14) (E) | An assessment of the effects of the proposed project on water resources. This discussion shall include: | | | |
| Appendix B (g) (14) (E) (i) | The effects of project demand on the water supply and other users of this source; | Pages 5.4-15 to 5.4-16, 5.18-4 & 3-90. | Yes | |
| Appendix B (g) (14) (E) (ii) | The effects of construction activities and plant operation on water quality; and | Pages 5.14 to 5.4-20. | Yes | |
| Appendix B (h) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; | Table 6.1-1 (Section 6.5.4). | Yes | |

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Project Elk Hills Power Project

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| Appendix B (h) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | Table 5.4-3. | Yes | |
| Appendix B (h) (2) | A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A). | Page 5.4-24 | No | Provide a discussion on how the project will comply with the applicable laws, ordinances, etc. |
| Appendix B (h) (3) | The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency. | Table 5.4-3 | Yes | |
| Appendix B (h) (4) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | Table 5.4-4 | Yes | |

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| Technical | Paleontological Resources | Project <u> Elk Hills Power Project </u> | Technical | <u> Robert Anderson </u> |
| Project | <u> Marc Pryor </u> | Docket <u> AFC-99-1 </u> | Technical | <u> Steve Baker </u> |

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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Page 5.17-1 Section 5.17.1, Page 5.17-8 through 5.17-10 Sections 5.17.2.2 through 5.17.5 | Yes | |
| Appendix B (g) (16) (A) | Identification of the physiographic province and a brief summary of the geologic setting, formations, and stratigraphy of the project area. The area may vary depending on the depositional history of the area. | Page 5.17-1 through 5.17-7 Section 5.17.1 through 5.17.1.2. | Yes | |

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| Appendix B (g) (16) (B) | A discussion of the sensitivity of the project area described in subsection (g)(16)(A) and the presence and significance of any known paleontologic localities or other paleontologic resources within or adjacent to the project. | Page 5.17-8 Section 5.17.2.1, and Appendix M Map of Paleontological Resource Inventory/Sensitivity Map | Yes | |
| Appendix B (g) (16) (C) | A summary of all literature searches and field surveys used to provide information about paleontologic resources in the project area described in subsection (g)(16)(A). Identify the dates of the surveys, methods used in completing the surveys, and the names and qualifications of the individuals conducting the surveys. | Page 5.17-2 through 5.17-7 Section 5.17.1.2 and Page 5.17-9 Section 5.17.3.1. | Yes | |

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| Appendix B (g) (16) (D) | Information on the specific location of known paleontologic resources, survey reports, locality records, and maps at a scale of 1:24,000, shall be included in a separate appendix to the Application and submitted to the Commission under a request for confidentiality, pursuant to Title 20, California Code of Regulations, § 2501 et seq. | Appendix M, Map of Paleontological Resource Inventory/Sensitivity Map | Yes | |
| Appendix B (g) (16) (E) | A discussion of any educational programs proposed to enhance awareness of potential impacts to paleontological resources by employees, measures proposed for mitigation of impacts to known paleontologic resources, and a set of contingency measures for mitigation of potential impacts to currently unknown paleontologic resources. | Page 5.17-10 Section 5.17.3.1 | Yes | |

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 Technical Steve Baker

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| Appendix B (h) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; | Page 6-33, Section 6.5.17.1 and Table 6.1-1, Pages 21-23. | Yes | |
| Appendix B (h) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | Page 5.17-11 Table 5.17-1 | Yes | |
| Appendix B (h) (2) | A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A). | Table 6-1.1 Pages 21-23 | Yes | |

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|---------------------------|--|--|------------------------------|---|
| Appendix B (h) (3) | The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency. | Page 5.17-11 Table 5.17-1 | Yes | The address for the BLM office in Sacramento is 2135 Butano Dr., Sacramento, CA. 95825. |
| Appendix B (h) (4) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | Page 5.17-11 Section 5.17.8 | Yes | |

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Technical **Facility Design**

Project Marc Pryor

Proje Elk Hills Power Project

Dock 99-AFC-1

Revision 0 Dat 3/8/99

Technical Staff: Kisabuli/Bob

Technical Steve Baker

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| Appendix B (g) (14) (B) (iii) | Water inundation zones, such as the 100-year flood plain and tsunami run-up zones. | Figure 5.4-7 100 year Flood Plain Map | Yes | |
| Appendix B (g) (14) (D) (i) | Precipitation and storm runoff patterns; and | Page 5.413 and Page 5.4-14 Section 5.4.1.3 Figure 5.4-7 100 year Flood Plain Map | No | 100 year 24 hour Isoheytal map needed to show precipitation pattern. |
| Appendix B (g) (14) (D) (ii) | Drainage facilities and design criteria. | Page 5.4-19, section 5.4.2.2 | No | Need drainage and grading plans for the project. The design storm should be the 100 year 24 hour storm. |
| Appendix B (g) (14) (E) (ii) | The effects of construction activities and plant operation on water quality; and | Page 5.4-19 Section 5.4.2.2 | Yes | |
| Appendix B (g) (14) (iii) | The effects of the project on the 100- year flood plain or other water inundation zones. | Page 5.4-19 Section 5.4.2.2 | Yes | |

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Technical Facility Design

Proje Elk Hills Power Project

Technical Staff: Kisabuli/Bob

Project Marc Pryor

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Technical Steve Baker

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| Appendix B (h) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; | Table 6.1-1 | Yes | |
| Appendix B (h) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | Table 6.1-1 | Yes | |
| Appendix B (h) (2) | A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A). | Table 6.1-1 | Yes | |

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Revision 0 Dat 3/8/99

Technical **Facility Design**

Proje Elk Hills Power Project

Technical Staff: Kisabuli/Bob

Project Marc Pryor

Dock 99-AFC-1

Technical Steve Baker

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| Appendix B (h) (3) | The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency. | Table 6.1-1 | Yes | |
| Appendix B (h) (4) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | Table 5.16-3 | Yes | |
| Appendix B (i) (1) (A) | A description of the site conditions and investigations or studies conducted to determine the site conditions used as the basis for developing design criteria. The descriptions shall include, but not be limited to, seismic and other geologic hazards, adverse conditions that could affect the project's foundation, adverse meteorological and climatic conditions, and flooding hazards, if applicable. | Appendix G | Yes | |
| Appendix B (i) (1) (B) | A discussion of any measures proposed to improve adverse site conditions. | Appendix G | Yes | |

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Proje Elk Hills Power Project

Technical Staff: Kisabuli/Bob

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| Appendix B (i) (1) (C) | A description of the proposed foundation types, design criteria (including derivation), analytical techniques, assumptions, loading conditions, and loading combinations to be used in the design of facility structures and major mechanical and electrical equipment. | Appendices A, B and F | No | Please provide a description of the major foundation types. Include loading conditions, loading combinations, typical drawings and dimensions of those foundations. |
| Appendix B (i) (1) (D) | For each of the following facilities and/or systems, provide a description including drawings, dimensions, surface-area requirements, typical operating data, and performance and design criteria for protection from impacts due to adverse site conditions: | | | |
| Appendix B (i) (1) (D) (i) | The power generation system; | Pages 3-1, 3-15 through 3-3-23, Figure 3.4-3 | Yes | |
| Appendix B (i) (1) (D) (ii) | The heat dissipation system; | Pages 3-37 and 3-38 | Yes | |
| Appendix B (i) (1) (D) (iii) | The cooling water supply system, and, where applicable, pre-plant treatment procedures; | Pages 1-4, 1-8, | Yes | |

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| Appendix B (i) (1) (D) (iv) | The atmospheric emission control system; | Pages 3-42 through 3- 44 | Yes | |
| Appendix B (i) (1) (D) (v) | The waste disposal system and on-site disposal sites; | Pages 1-5, 1-12, 3-38, through 3-40, 3-66, and 3-91 | Yes | |
| Appendix B (i) (1) (D) (vii) | The geothermal resource conveyance and re-injection lines (if applicable); | -N/A- | | |
| Appendix B (i) (1) (D) (viii) | Switchyards/transformer systems; and | Pages 1-4, 3-23 | Yes | |
| Appendix B (i) (1) (D) (ix) | Other significant facilities, structures, or system components proposed by the applicant. | Pages 3-28 through 3- 36 Appendix F | Yes | |

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Technical Reliability

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Technical Steve Baker

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Technical Steve Baker

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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | § 1.1, 1.6.2, 1.6.5, 1.6.6, 1.7, 1.8, 1.9.2, 2.1, 3.1, 3.3, 3.4.2, 3.4.3.1, 3.4.4.3, 3.4.4.4, 3.4.5, 3.4.6, 3.4.6.2, 3.4.6.4, 3.4.11.3, 3.4.11.6, 3.4.11.7, 3.7.1, 3.7.2, 3.9, 4.0, 4.1.1, 4.3, 4.4, 6.4.1.2; Appendix F | Yes | |
| Appendix B (i) (3) (A) | A discussion of the sources and availability of the fuel or fuels to be used over the estimated service life of the facilities. | § 1.1, 1.6.2, 1.6.5, 2.1, 3.1, 3.4.5, 3.7.1, 4.3.3 | Yes | |
| Appendix B (i) (3) (B) | A discussion of the anticipated service life and degree of reliability expected to be achieved by the proposed facilities based on a consideration of: | — | — | |
| Appendix B (i) (3) (B) (i) | Expected annual and lifetime capacity factors; | § 1.7, 3.4.2, 3.9, 4.3.1 | Yes | |

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Technical **Reliability**

Project Elk Hills Power Project

Technical Steve Baker

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| Appendix B (i) (3) (B) (ii) | The demonstrated or anticipated feasibility of the technologies, systems, components, and measures proposed to be employed in the facilities, including the power generation system, the heat dissipation system, the water supply system, the reinjection system, the atmospheric emission control system, resource conveyance lines, and the waste disposal system; | § 1.9.2, 3.4.2, 3.4.3.1, 3.11.4.1, 3.11.4.3, 3.11.4.4 | Yes | |
| Appendix B (i) (3) (B) (iii) | Geologic and flood hazards, meteorologic conditions and climatic extremes, and cooling water availability; | § 1.6.2, 1.6.6, 1.8, 1.9.5, 3.4.6, 3.4.6.2, 3.7.2, 4.0, 4.1.1, 4.3.4; Appendix G | Yes | |
| Appendix B (i) (3) (B) (iv) | Special design features adopted by the applicant or resource supplier to ensure power plant reliability; and | § 1.6.5, 1.6.6, 1.8, 1.9.5, 3.4.4, 3.4.5, 3.4.6, 3.7.2, 4.3.1, 4.3.2, 4.3.5, 6.4.1.2; Appendix F | Yes | |
| Appendix B (i) (3) (B) (v) | The expected power plant maturation period. | Not found | No | |

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Technical **Reliability**

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| Appendix B (h) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; | Table 6.1-1 | Yes | |
| Appendix B (h) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | | N/A | |
| Appendix B (h) (2) | A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A). | | N/A | |

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Technical Reliability

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| Appendix B (h) (3) | The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency. | | N/A | |
| Appendix B (h) (4) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | | N/A | |

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| Adequacy | Adequat <u> x </u> Inadequat <u> </u> | | Revision <u> 0 </u> | Dat <u> 3/11/99 </u> |
| Technical | Efficiency | Project <u> Elk Hills Power Project </u> | Technical | <u> Steve Baker </u> |
| Project | <u> Marc Pryor </u> | Docket <u> 99-AFC-1 </u> | Technical | <u> Steve Baker </u> |

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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | § 1.1, 1.6.2, 1.7, 1.9.2, 2.1, 3.1, 3.4.2, 3.4.3.1, 3.4.3.2, 3.4.6.4, 3.9, 3.10, 3.11.4, 4.4, 5.1.8.2; Figure 3.4-4, 3.4-5 | Yes | |
| Appendix B (i) (4) (A) | Heat and mass balance diagrams for design conditions for each mode of operation. | Figure 3.4-4, 3.4-5 | Yes | |
| Appendix B (i) (4) (B) | Annual fuel consumption in BTUs for each mode of operation. | § 1.6.5, 4.3.3; Figure 3.4-4, 3.4-5 | Yes | |
| Appendix B (i) (4) (C) | Annual net electrical energy produced in MWh for each mode of operation. | Figure 3.4-4, 3.4-5 | Yes | |

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Technical Efficiency

Project Elk Hills Power Project

Technical Steve Baker

Project Marc Pryor

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Technical Steve Baker

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| Appendix B (i) (4) (D) | Number of hours the plant will be operated in each mode of operation in each year. | § 1.7, 2.1, 3.9 | Yes | |
| Appendix B (i) (4) (E) | If the project will be a cogeneration facility, calculations showing compliance with applicable efficiency and operating standards. | | N/A | |
| Appendix B (i) (4) (F) | A discussion of alternative generating technologies available for the project, including the projected efficiency of each, and an explanation why the chosen equipment was selected over these alternatives. | § 3.11.4 | Yes | |

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 Project Marc Pryor

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| Appendix B (h) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; | | N/A | |
| Appendix B (h) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | | N/A | |
| Appendix B (h) (2) | A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A). | | N/A | |

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Technical Efficiency

Project Elk Hills Power Project

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| Appendix B (h) (3) | The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency. | | N/A | |
| Appendix B (h) (4) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | | N/A | |

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| Adequacy | Adequat <input type="checkbox"/> Inadequat <input checked="" type="checkbox"/> | | Revision <u>1</u> | Dat <u>3/12/99</u> |
| Technical | Transmission System | Project <u>Elk Hills Power Project</u> | Technical | <u>Mark Hesters</u> |
| Project | <u>Marc Pryor</u> | Docket <u>99-AFC-1</u> | Technical | <u>Al McCuen</u> |

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| Appendix B (i) (2) (A) | A discussion of the need for the additional electric transmission lines, substations, or other equipment, the basis for selecting principal points of junction with the existing electric transmission system, and the capacity and voltage levels of the proposed lines, along with the basis for selection of the capacity and voltage levels. | Section 3.6, pages 3-52 through 3-63 | Yes | |
| Appendix B (i) (2) (B) | A discussion of the extent to which the proposed electric transmission facilities have been designed, planned, and routed to meet the transmission requirements created by additional generating facilities planned by the applicant or any other entity. | | No | Provide a discussion of the extent to which the proposed electric transmission facilities have been designed, planned, and routed to meet the transmission requirements created by additional generating facilities planned by the applicant or any other entity. |

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Technical **Transmission System**

Project Elk Hills Power Project

Technical Mark Hesters

Project Marc Pryor

Docket 99-AFC-1

Technical Al McCuen

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| Appendix B (b) (2) (C) | A detailed description of the design, construction, and operation of any electric transmission facilities, such as powerlines, substations, switchyards, or other transmission equipment, which will be constructed or modified to transmit electrical power from the proposed power plant to the load centers to be served by the facility. Such description shall include the width of rights of way and the physical and electrical characteristics of electrical transmission facilities such as towers, conductors, and insulators. This description shall include power load flow diagrams which demonstrate conformance or nonconformance with utility reliability and planning criteria at the time the facility is expected to be placed in operation and five years thereafter; and | Section 3.6, pages 3-52 through 3-63 Appendix I, all | No | Please provide power load flow diagrams. Note: Staff anticipates that its analyst will include a case with the La Paloma and Sunrise Projects. |

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Project Elk Hills Power Project

Technical Mark Hesters

Project Marc Pryor

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Technical Al McCuen

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| Append/ix B (b) (2) (D)/ | A description of how the route and additional transmission facilities were selected, and the consideration given to engineering constraints, environmental impacts, resource conveyance constraints, and electric transmission constraints. | Section 3.6, pages 3-52 through 3-63; Section 5.7 pages 5.7-3 to 5.7-11 | Yes | |
| Appendix B (g) (18) (A) | The locations and a description of the existing switchyards and overhead and underground transmission lines that would be affected by the proposed project. | Section 3.6, pages 3-52 through 3-63; Section 5.7 pages 5.7-3 to 5.7-11 | Yes | |

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Technical Mark Hesters

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| Appendix B (g) (18) (B) | An estimate of the existing electric and magnetic fields from the facilities listed in (A) above and the future electric and magnetic fields that would be created by the proposed project, calculated at the property boundary of the site and at the edge of the rights of way for any transmission line. Also provide an estimate of the radio and television interference that could result from the project. | | | Not Applicable |
| Appendix B (g) (18) (C) | Specific measures proposed to mitigate identified impacts, including a description of measures proposed to eliminate or reduce radio and television interference, and all measures taken to reduce electric and magnetic field levels. | | | Not Applicable |

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| Appendix B (h) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; | Table 6-1.1 pages 4 to 5 and pages 8 to 9. | Yes | |